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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7020A Power Rail Probe, 2GHz, 1:1, 24V Offset

Agilent Keysight N7020A Power Rail Probe 2 GHz The Keysight N7020A is a 2 GHz single-ended power-rail probe with AutoProbe interface for power-integrity measurements. OEM data sheet 5992-0141EN and the N7020A/N7024A user's guide list 1.1:1 attenuation, plus or minus 24 V offset, 50 kOhm plus or minus 2 percent DC input impedance, plus or minus 850 mV active signal range about the offset, and only a 10 percent increase in oscilloscope noise at 2 GHz. PARD, static/dynamic load response, and programmable power-rail zoom on Infiniium and InfiniiVision scopes with AutoProbe I. The Keysight N7020A is a 2 GHz single-ended power-rail probe with AutoProbe interface for power-integrity measurements. OEM data sheet 5992-0141EN and the N7020A/N7024A user's guide list 1.1:1 attenuation, plus or minus 24 V offset, 50 kOhm plus or minus 2 percent DC input impedance, plus or minus 850 mV active signal range about the offset, and only a 10 percent increase in oscilloscope noise at 2 GHz. PARD, static/dynamic load response, and programmable power-rail zoom on Infiniium and InfiniiVision scopes with AutoProbe I.



MODEL

**Agilent / Keysight
N7020A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7020A

LISTING

<https://aumictechlabs.com/products/n7020a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N7020A is a specialized power rail probe designed to accurately measure and analyze power integrity characteristics. It enables engineers to measure ripple, noise, and transient events on DC power rails with high precision. Its high DC input impedance minimizes loading effects on the power rail, ensuring accurate measurements. The N7020A features a low noise floor, allowing users to capture small signal variations and identify potential power integrity issues. This probe is a valuable tool for power supply design, validation, and troubleshooting in various electronic systems.

N7020A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Single-ended power rail probe
Series Family	Keysight N7020A / N7024A power rail probes
Probe Bandwidth Main Cable	2 GHz (minus 3 dB) with N7022A
Probe Bandwidth Pigtail	2 GHz with N7021A coaxial pigtail
Probe Bandwidth Browser Ground Spring	350 MHz using the included ground spring
Maximum Input Voltage	plus or minus 30 V peak (mains isolated, non-destructive)
Attenuation Ratio	1:1:1
Offset Range	plus or minus 24 V
Input Impedance At Dc	50 kOhm plus or minus 2 percent
Active Signal Range	plus or minus 850 mV about the offset voltage
Probe Noise At 2 GHz	10 percent increase in the noise of the connected oscilloscope
Output Termination	50 ohm oscilloscope input
Probe Type	single-ended
Main Cable Length	N7022A 48 in
Pigtail Length	N7021A 8 in
Scope Interface	AutoProbe!Compatible Scopes: InfiniiVision 3000T/4000 X; 6000 X after 1 Feb 2016; Infiniium S-Series and 9000 Series firmware 5.20 or newer
Rise Time 10 To 90 Main	49 ps class with N7022A (tr = 0.435/bandwidth table in 5992-0141)
Literature	Keysight 5992-0141EN and N7020-97005 user's guide
Measurement Class	PARD, static and dynamic load response, programmable rail response
Browser N7032A Bandwidth	2 GHz with N7022A main cable
Browser N7033A Bandwidth	2 GHz with N7022A main cable
Bandwidth	Main Cable: 2 GHz (minus 3 dB) with N7022A
Rise Time	10 To 90 Main: 49 ps class with N7022A (tr = 0.435/bandwidth table in 5992-0141)

PARAMETER	VALUE
Attenuation	Ratio: 1:1:1

N7020A Specifications

PARAMETER	VALUE
Agilent Keysight N7020A Power Rail Probe 2 GHz	Overview
Key Features	Low attenuation 1.1:1 for high SNR versus 10:1 passive probes
Technical Specifications	Instrument Type: Single-ended power rail probe
Notes	Numeric rows from Keysight N7020A Power Rail Probe data sheet 5992-0141EN and N7020A & N7024A Power Rail Probes User's Guide N7020-97005.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Instrument Type	Single-ended power rail probe
Series Family	Keysight N7020A / N7024A power rail probes
Probe Bandwidth Main Cable	2 GHz (minus 3 dB) with N7022A
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Probe Bandwidth Browser Ground Spring	350 MHz using the included ground spring
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Attenuation Ratio	1.1:1
Offset Range	plus or minus 24 V
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Active Signal Range	plus or minus 850 mV about the offset voltage
Probe Noise At 2 GHz	10 percent increase in the noise of the connected oscilloscope
Output Termination	50 ohm oscilloscope input
Probe Type	single-ended
Main Cable Length	N7022A 48 in
Pigtail Length	N7021A 8 in
Scope Interface	AutoProbe I
Compatible Scopes	InfiniiVision 3000T/4000 X; 6000 X after 1 Feb 2016; Infinium S-Series and 9000 Series firmware 5.20 or newer
Rise Time 10 To 90 Main	49 ps class with N7022A (tr = 0.435/bandwidth table in 5992-0141)
Literature	Keysight 5992-0141EN and N7020-97005 user's guide
Measurement Class	PARD, static and dynamic load response, programmable rail response
Browser N7032A Bandwidth	2 GHz with N7022A main cable
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Literature	Keysight 5992-0141EN and N7020-97005 user's guide
Measurement Class	PAR, static and dynamic load response, programmable rail response
Browser N7032A Bandwidth	2 GHz with N7022A main cable
Browser N7033A Bandwidth	2 GHz with N7022A main cable

Notes

Numeric rows from Keysight N7020A Power Rail Probe data sheet 5992-0141EN and N7020A & N7024A Power Rail Probes User's Guide N7020-97005.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.